LISTING OF CLAIMS

- 1. (original): A method for detecting the presence of clear cell renal cell carcinoma (CC-RCC) in a subject, or the susceptibility of the subject for developing CC-RCC comprising detecting or measuring LSAMP and/or NORE1 gene expression in a sample from the subject, and comparing the expression with a baseline level of expression, wherein a reduction in the expression of one or both of said genes compared to the baseline level indicates that the subject suffers from, or is susceptible to CC-RCC.
- 2 (original): The method of claim 1 wherein the expression is detected or measured as transcription of mRNA encoded by the LSAMP and/or NORE1 gene, by detecting or measuring the presence or amount of said mRNA in said sample.
- 3 *(original):* The method of claim 1 wherein the expression is detected or measured as a polypeptide product encoded by the LSAMP or NORE1 gene, by detecting of measuring the presence or amount of LSAMP or NORE1 polypeptide in said sample.
- 4 *(original):* The method of claim 3 wherein said detecting or measuring is performed with a binding partner for said LSAMP1 or NORE1 polypeptide.
- 5 (original): The method of claim 4 wherein said binding partner is an antibody specific for an epitope of said LSAMP1 or NORE1 polypeptide and said detecting or measuring is by an immunoassay.
- 6 (original): The method of <u>claim 1</u> any of claims 1-5 wherein said sample is a cell, tissue or tissue extract.
- 7 (original): The method of claim 1 any of claims 1-5 wherein said sample is a body fluid selected from the group consisting of blood, plasma, serum, urine, saliva or cerebrospinal fluid.
 - 8 (original): The method of claim 7 wherein said sample is a kidney tumor.
- 9. *(original):* The method of claim 8 wherein said sample is section of a paraffin embedded tissue section of said kidney tumor.

10 (original): A method for inhibiting a cancer-associated property of a cell in which the expression of the LSAMP and/or NORE1 genes is reduced compared to a baseline value, comprising providing to the cell an effective amount of LSAMP and/or NORE1 polypeptide or active fragment or variant thereof, wherein said polypeptide fragment or variant augments the level of LSAMP and/or NORE1 gene products in the cell, thereby inhibiting said cancer-associated property.

- 11 (original): The method of claim 10 wherein the providing is by microinjection, liposomemediated introduction, or electroporation.
- 12 (original): A method for inhibiting a cancer-associated property of a cell in which the expression of the LSAMP and/or NORE1 genes is reduced compared to a baseline value, comprising providing to the cell an effective amount of
 - (a) an LSAMP and/or NORE1 polypeptide or active fragment or active variant thereof;
 - (b) an expressible polynucleotide encoding said LSAMP and/or NORE1 polypeptide, fragment or variant; or
- (c) an agent that induces or increases expression of the *LSAMP* and/or *NORE1* genes; wherein said polypeptide, fragment or variant, said polynucleotide or said agent results in an increased level of *LSAMP* and/or *NORE1* gene products in the cell, thereby inhibiting said cancer-associated property.
 - 13 (original): The method of claim 12 wherein said property is tumor growth.
- 14 *(original):* The method of claim 12 wherein the providing is by microinjection, liposome-mediated transfer, electroporation or microinjection.
- 15 (original): A method for treating a subject with CC-RCC in whom CC-RCC cells underexpress the LSAMP and/or the NORE1 gene compared to a baseline value, which method comprises administering to the subject an effective amount of
 - (a) an LSAMP and/or NORE1 polypeptide or active fragment or active variant thereof;
 - (b) an expressible polynucleotide encoding said LSAMP and/or NORE1 polypeptide, fragment or variant; or
 - (c) an agent that induces or increases expression of the LSAMP and/or NORE1 genes;

wherein said polypeptide, fragment or variant, said polynucleotide or said agent results in an increased level of *LSAMP* and/or *NORE1* gene product in the under-expressing CC-RCC cells, thereby treating said subject.

- 16 (original): The method of claim 15, wherein the polypeptide, active fragment, active variant, or agent is administered systemically or intratumorally.
- 17 (original): The method of claim 15 wherein the polynucleotide being administered comprises a sequence encode the polypeptide, fragment or variant operably linked to an expression control sequence which promotes or induces expression of the polypeptide in said subject.
- 18. (currently amended): The method of claim 15 or 17-wherein the polynucleotide is administered by injection, by gene gun administration, or by needle-free jet injection.
- 19. *(original)*: The method of claim 18 wherein the polynucleotide is administered intramuscularly or intratumorally.
 - 20 (original): A pharmaceutical composition comprising
 - (a) as an active moiety, an LSAMP and/or NORE1 polypeptide, or an active fragment or variant thereof, or a polynucleotide encoding an LSAMP and/or NORE1 polypeptide, or encoding an active fragment or variant of the polypeptide, wherein the polynucleotide is operably linked to an expression control sequence; and
 - (b) a pharmaceutically acceptable carrier.
- 21 *(original)*: The pharmaceutical composition of claim 20 wherein the active moiety is said polynucleotide.
- 22. (currently amended): A kit suitable for [[a]] carrying out the method of claim 3 by detecting the presence and/or measuring amount of an LSAMP and/or a NORE1 polypeptide in a sample, the kit comprising one or more reagents for detecting and/or measuring said LSAMP and/or NORE1 [[the]] polypeptide, and optionally
- 23 *(original):* The kit of claim 22 wherein said detecting reagent is an antibody specific for an epitope of the LSAMP or NORE1 polypeptide.
- 24 (original): The kit of claim 23 further comprising one or more reagents for testing the binding of the antibody to a sample polypeptide and/or for facilitating detection of antibody binding.

4

VAI-20

25. (currently amended): A kit useful in [[a]] carrying out the method of claim 2 by detecting the presence and/or amount of a polynucleotide encoding LSAMP and/or NORE1 polypeptide in a sample, said kit comprising a nucleic acid probe specific for a LSAMP- or NORE1 encoding DNA or RNA, and, optionally, one or more reagents that facilitate hybridization of the probe to the sample DNA or RNA, and/or that facilitate detection of the hybridized probe.

- 26. (currently amended) A kit useful in [[a]] <u>carrying out the method of claim 15, for treating a subject with CC-RCC</u>, comprising:
 - (a) an LSAMP and/or NORE1 polypeptide or active fragment or active variant thereof;
 - (b) an expressible polynucleotide encoding said LSAMP and/or NORE1 polypeptide, fragment or variant; or
- (c) an agent that induces or increases expression of the *LSAMP* and/or *NORE1* genes; and optionally, (i) a means for administering the polypeptide to the subject and (ii) instructions for using the kit.
- 27. (currently amended): The kit of claim 22 any of claims 21-26 comprising any one or more of: instructions for performing the method for which the kit is intended and/or for analyzing and/or evaluating the results of the method, a support on which a cell can be propagated, a support to which a reagent used in the method is immobilized, suitable buffers, media components, or other reagents for performing suitable controls, a computer, a computer-readable medium for storing and/or evaluating the assay results, containers or packaging materials.
- 28. (original): An antibody specific for an epitope of the LSAMP or a NORE1 polypeptide which is useful in a the method of claim 5.
- 29. (new) The method of claim 17 wherein the polynucleotide is administered by injection, by gene gun administration, or by needle-free jet injection.
- 30. (new) The kit of claim 24 comprising any one or more of: instructions for performing the method for which the kit is intended and/or for analyzing and/or evaluating the results of the method, a support on which a cell can be propagated, a support to which a reagent used in the method is immobilized, suitable buffers, media components, or other reagents for performing suitable controls, a computer, a computer-readable medium for storing and/or evaluating the assay results, containers or packaging materials.

31. (new) The kit of claim 25 comprising any one or more of: instructions for performing the method for which the kit is intended and/or for analyzing and/or evaluating the results of the method, a support on which a cell can be propagated, a support to which a reagent used in the method is immobilized, suitable buffers, media components, or other reagents for performing suitable controls, a computer, a computer-readable medium for storing and/or evaluating the assay results, containers or packaging materials.

6 · VAI-20